

## **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: Hyperparameter search of iM6A. Different model structures (6 in total, the Model structure table) and batch sizes (6 in total, the Batch size table)

File Name: Supplementary Data 2

Description: Effect values of pentamer motifs. Four situations are provided (human long internal exon, human last exon, mouse long internal exon and mouse last exon). The p value is calculated by student t test in linear regression.

File Name: Supplementary Data 3

Description: Effect values of codons. Both human and mouse last exon codon effect values are provided. The p value is calculated by student t test in linear regression.